

# MICROSERVICE EVENT – PART A

April 04, 2021 by Team2 Cohort 9

## OVERVIEW

**Microservice** - Team2 built the first part of the event Microservice API architecture that allows user to view, search, sort and filter events by date, category, zip code and etc

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## APPROACH

### 1. Created Model/Domain that represents Events and defined properties

- **Event Item** (Properties – Id, Name, Description, Price, PicUrl, Organizer, Time and relationship with Catalog, Type and Address)
- **Event Category** (Properties – Id & Category)
- **Event Type** (Properties - Id & Type)
- **Event Address** (Properties – Id, City, State, Zip Code, & Street Address)

### 2. Convert Class to SQL Database (Creating a table via entity framework – Where, What and How)

- 2.1 **DB Context** – Initialized Database context on where it is located and its name. (not defined)
- 2.2 **Tables** – Created table for EventAddress, EventCategory, EventType and EventItem.
- 2.3 **Rules** – Created rules for the tables (Defined PK, FK and required field)

### 3. Created wwwroot folder and added pictures

#### **4. Created EventSeed Class – Seeded data with dummy data to be feeded to our table**

- **Db Migration Command:** EventContext class that populates data (GetEventType, GetAddress, GetEventCategories, and GetEventItems)
- **Added Dummy Data**  
Event Address, Event Category, Event Organizer, Event Type and Event Item

#### **5. Startup File – set instruction on how and where the database should be created.**

- **Program.cs** – Main method – calls the startup
- **Json setting** – Setup connection with our database and local

#### **6.API – Controller – define logics to access out data**

##### **6.1 Pic Controller – Get image for specific event**

##### **6.2 Event Item Controller**

- **Date** - User can sort event by date (oldest to newest), sort events by month and filter event by specific date.
- **Event Type** – Use can sort and filter event by event type.
- **Event Category** – User can sort and filter event by category.
- **Event Address** – user can sort and filter events by Zip code

#### **7. Testing APIs on web browser – return in json in array of elements, as well as on postman.**

#### **8. Dockerizing – created docker composer**